

Name:

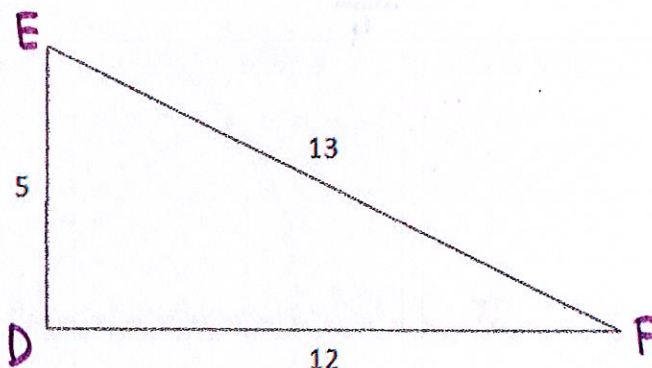
Solutions

Davis

1. Evaluate  $\sin E = \frac{12}{13}$

2. Evaluate  $\sec E = \frac{13}{5}$

3. Evaluate  $\tan F = \frac{5}{12}$



4. Complete the statement (fill in the blank):  $\sin 70^\circ = \cos 20^\circ$

5. Complete the statement (fill in the blank):  $\sin 65^\circ = \cos 25^\circ$

6. Write  $\sin 120^\circ$  in terms of a reference angle

$$\sin 120^\circ = \sin 60^\circ$$

7. Write  $\cos 260^\circ$  in terms of a reference angle

$$\cos 260^\circ = -\cos 80^\circ$$

8. Write  $\tan 290^\circ$  in terms of a reference angle

$$\tan 290^\circ = -\tan 70^\circ$$

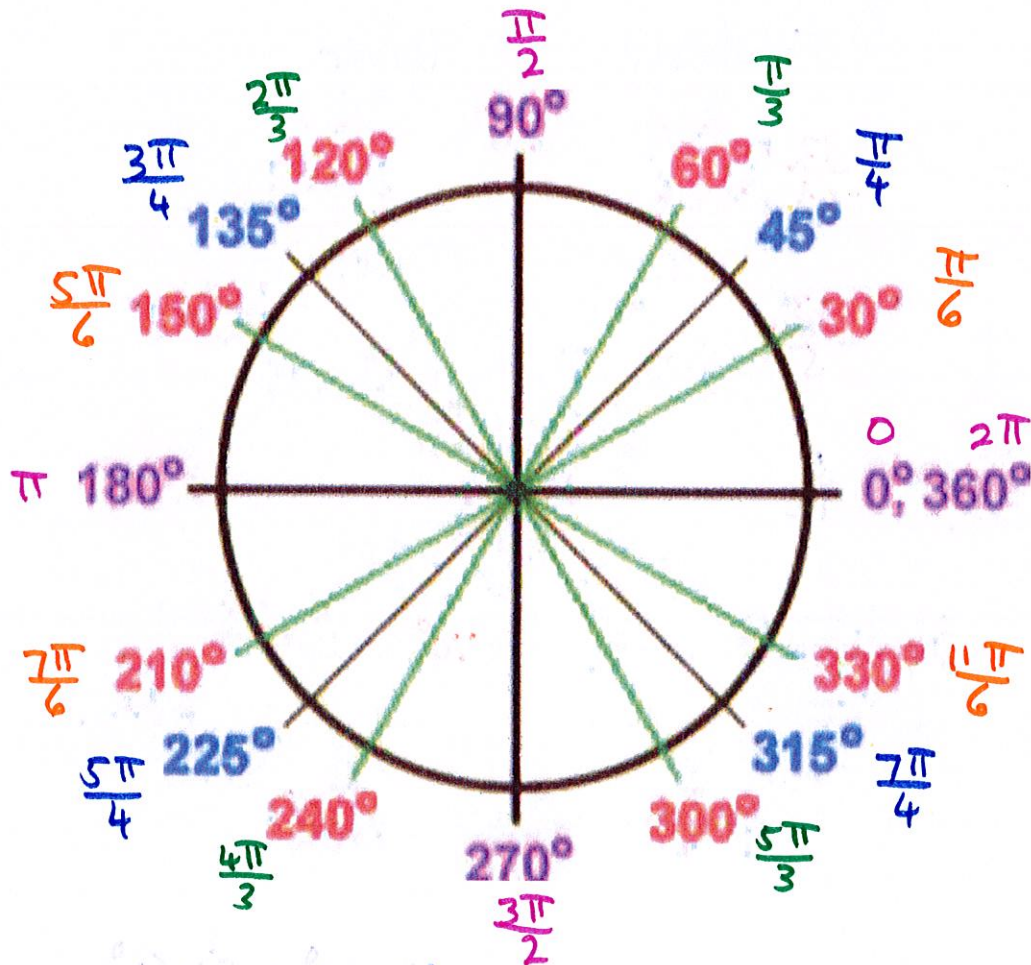
9. Write  $\cot 165^\circ$  in terms of a reference angle

$$\cos 165^\circ = -\cos 15^\circ$$

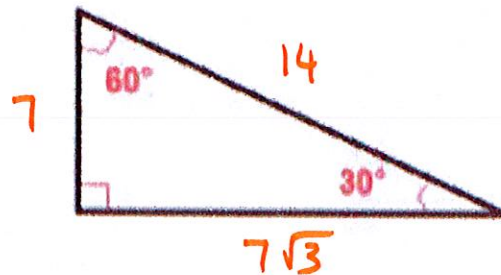
10. Write  $\sec 350^\circ$  in terms of a reference angle

$$\sec 350^\circ = \sec 10^\circ$$

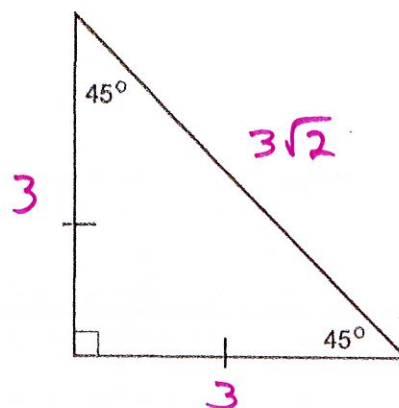
11. Next to each degree angle measure, write it's equivalent radian angle measure:



12. Given the special triangle below with 14 as its hypotenuse length, find the lengths of the other two sides.



13. Given the special triangle below with 3 as its leg length, find the lengths of the other two sides.



14. Evaluate the trigonometric expression  $\sin \frac{\pi}{6} = \frac{1}{2}$

15. Evaluate the trigonometric expression  $\cos 45^\circ = \frac{\sqrt{2}}{2}$

16. Evaluate the trigonometric expression  $\tan \frac{\pi}{3} = \sqrt{3}$

17. Evaluate the trigonometric expression  $\sin 300^\circ = -\frac{\sqrt{3}}{2}$

18. Evaluate the trigonometric expression  $\cos \frac{11\pi}{6} = \frac{\sqrt{3}}{2}$

19. Evaluate the trigonometric expression  $\tan 330^\circ = -\frac{\sqrt{3}}{3}$